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Surface acoustic wave probes for chemical analysis. III. Thermomechanical polymer analyzer

H Wohltjen, R Dessy - *Analytical Chemistry*, 1979 - ACS Publications
... could probably do a factor of 10 better with little difficulty (3). In addition a **thermal conductivity** detector has ... 7. Polysulfone (strained 25 %) **glass transition** profile strained sample occurring at 189 °C. The **glass transition** for a single-phase **polycarbonate**- polysulfone copolymer ...
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A Differential Scanning Calorimeter for Quantitative Differential Thermal Analysis.

ES Watson, MJ O'Neill, J Justin, N Brenner - *Analytical Chemistry*, 1964 - ACS Publications
... The **thermal conductivity** effluent monit.or cell and its associated circuitry. ", ~ : ...
In conventional DTA, the **thermal conductivity** of the sample will markedly influence the area obtained per unit of energy input or output. ...
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Study of change in thermal diffusivity of amorphous polymers during glass transition

J Morikawa, J Tan, T Hashimoto - *Polymer*, 1995 - Elsevier
... in polymer processing the thermal transport properties such as thermal diffusivity a and **thermal conductivity** A are ... in Table 1. Tg is defined as the middle point of the **glass transition** in this ... Figure 6 shows the a of **polycarbonate** (PC), polyimide (PI) and poly(ether sulfone) (PES). ...
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Microfabricated polycarbonate CE devices for DNA analysis

Y Liu, D Ganser, A Schneider, R Liu, P Grodzinski, ... - *Anal. Chem.*, 2001 - ACS Publications
... Compared to glass, **polycarbonate** (like most of the plastic materials) has poor **thermal conductivity**. ...
The **glass transition** temperature for **polycarbonate** is about 145 °C; therefore, the devices made of this material are well-suited for PCR reactions, which require thermal ...
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Differential thermal lens temperature scanning approach to glass transition analysis in polymers: application to polycarbonate

JH Rohling, AN Medina, AC Bento, JRJ ... - *Journal of Physics D: ...*, 2001 - iopscience.iop.org
... lens spectrometry is applied to determine the thermal and optical properties of **polycarbonate** as a ... Differential TL temperature scanning approach to **glass transition** analysis in polymers ... mass density, c is the sample's specific heat, and k is the sample's **thermal conductivity**. ...
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The influence of thermal history on internal stress distributions in sheets of PMMA and polycarbonate

JR Saffell, AH Windle - *Journal of Applied Polymer Science*, 1980 - interscience.wiley.com
... Once the surface conductance has been measured and the heat capacity and **thermal conductivity** are deter- mined, cooling curves ... stability with aging is to avoid elastic stresses by reducing the cooling rate through the **glass transition** (150°C for **polycarbonate**), which usually ...
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Measurements of the thermal conductivity and thermal diffusivity of polymer melts with the short-hot-wire method

X Zhang, W Hendro, M Fujii, T Yomimura, N ... - *International Journal of ...*, 2002 - Springer
... are observed for the thermal diffusivity (Fig.9) near the **glass transition** temperature. ... a maximum value at the melt transition temperature, and that of **polycarbonate** fluctuates sharply ... The **thermal conductivity** and thermal diffusivity of four kinds of commercial polymers have been ...
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Thermal writing using a heated atomic force microscope tip

HJ Mamin - *Applied Physics Letters*, 1996 - link.aps.org
... The **glass transition** temperature for the **polycarbonate** is about 140 °C, very consistent with these values. ... We have also operated the cantilevers on a rotating **polycarbonate** substrate ... C. Because of this relatively high transition temperature and the high **thermal conductivity** of the ...
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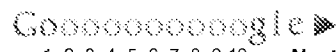
Model of the selective laser sintering of bisphenol-A polycarbonate

JC Nelson, S Xue, JW Barrow, JJ Beaman, ... - *Industrial & ...*, 1993 - ACS Publications
... the bed temperature is as close to the polymer softening temperature (the **glass transition** temperature ... bed density at position z, C, the specific heat, K the **thermal conductivity**, T the ... For sintering of an amorphous material, such as the bisphenol-A **polycarbonate** (PC) described ...
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Detection of polymer transitions by measurement of thermal properties

RC Steere - *Journal of Applied Polymer Science*, 1966 - interscience.wiley.com
... **conductivity** of **polycarbonate**. OC v YY1 4 0 .40 0 10 °C Fig. 1s. Specific heat of **polycarbonate**. The specific heat values compare well with those obtained in all extensive study on Lexan res111.- Poly(vinyl Chloride) Poly(vinyl chloride) is known to have a **glass transition** ...
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